

85678-26

7/3/2012

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U S ENVIRONMENTAL PROTECTION AGENCY
Office of Chemical Safety and Pollution Prevention
Registration Division (7505C)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number

85678 26

Date of Issuance

JUL 0 3 2012

NOTICE OF PESTICIDE

Registration
 Reregistration

(under FIFRA as amended)

Term of Issuance

Unconditional

Name of Pesticide Product

Acephate 97 DF

Name and Address of Registrant (include ZIP Code)

RedEagle International LLC
1925 E Edgewood Drive Suite 105
Lakeland FL 33803

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you

- 1 Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data
- 2 Make the following label change before you release the product for shipment
 - Revise the EPA Registration Number to read EPA Reg No 85678 26

Signature of Approving Official

Venus Eagle Product Manager 01
Insecticide Rodenticide Branch Registration Division (7505P)

Date

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3 Storage stability (830 6317) and corrosion characteristics (830 6320) data must be submitted within 18 months from the date of this registration notice

4 Submit one copy of your final printed labeling before you release the product for shipment

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA section 6(e) Your release for shipment of the product constitutes acceptance of these conditions If you have any questions please contact Autumn Metzger at 703 305 5314 or metzger autumn@epa gov

A stamped copy of the label is enclosed for your records

Venus Eagle
Product Manager 01
Insecticide Rodenticide Branch
Registration Division (7505P)

Enclosure

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085678 xxxxx 20120620 V1

RedEagle International LLC
Draft label for initial registration

ACEPHATE 97 DF

Active Ingredient	<u>By Wt</u>
Acephate (O S Dimethyl acetylphosphoramidothioate)	97 0%
Other Ingredients	<u>3 0%</u>
Total	100 0%

KEEP OUT OF REACH OF CHILDREN CAUTION

First Aid	
Acephate is an organophosphate cholinesterase inhibitor	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice • Have person sip a glass of water if able to swallow • Do not induce vomiting unless told to do so by a poison control center or doctor • Do not give anything by mouth to an unconscious person
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 20 minutes • Call a poison control center or doctor for treatment advice
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 20 minutes • Remove contact lenses if present after the first 5 minutes then continue rinsing eye • Call a poison control center or doctor for treatment advice
NOTE TO PHYSICIAN	
Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2 PAM may also be used in conjunction with atropine but should not be used alone.	
EMERGENCY TELEPHONE NUMBERS Have the product container or label with you when calling a poison control center or doctor or going for treatment. Call the National Pesticides Information Center (NPIC) at 1 800 858 7378 seven days a week 6 30 am to 4 30 pm Pacific Time (NPIC Web site www npic orst edu)	

EPA Reg No 85678 EA26

EPA Est No

Manufactured for
RedEagle International LLC
1925 E Edgewood Drive Ste 105
Lakeland FL 33803

Net Contents ____ lbs (____ kg)

ACCEPTED
With COMMENTS
In EPA Letter Dated
JUL 03 2012
Under the Federal Insecticide Fungicide
and Rodenticide Act As amended for the
pesticide Registered under EPA Reg. No
85678-26

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION Harmful if swallowed Harmful if absorbed through skin Causes moderate eye irritation Avoid contact with skin eyes or clothing Wear long sleeved shirt long pants shoes socks and chemical resistant gloves (such as or made out of any waterproof material selection category A)

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical resistant to this product are butyl rubber nitrile rubber or neoprene rubber If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart

Applicators, mixers, loaders, and other handlers must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves for all mixers and loaders and for applicators using hand held application equipment
- Socks and shoes

In addition, all mixers and loaders and all applicators using low pressure hand wand application equipment must wear

- A NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC 21C or a NIOSH approved respirator with any N R P or HE filter

See engineering controls for additional requirements

Follow manufacturer s instructions for cleaning/maintaining PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170 240(d)(6)]
The use of human flaggers is prohibited

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds For terrestrial uses do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Do not contaminate water when cleaning equipment or disposing of equipment washwaters Exposed treated seed may be hazardous to birds and other wildlife Dispose of all excess treated seed and seed packaging by burial away from bodies of water

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds

Do not discharge effluent containing this product into lakes streams ponds estuaries oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permitted and the permitting authority has been notified in writing prior to discharge Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority For guidance contact your State Water Board or Regional Office of the EPA

USER SAFETY RECOMMENDATIONS

Users should

Wash hands before eating drinking chewing gum using tobacco or using the toilet
Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
Remove PPE immediately after handling this product Wash the outside of gloves before removing As soon as possible wash thoroughly and change into clean clothing

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 This Standard contains requirements for the protection of agricultural workers on farms forests nurseries and greenhouses and handlers of agricultural pesticides It contains requirements for training decontamination notification and emergency assistance It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is

- Coveralls
- Chemical resistant gloves made of any waterproof material and
- Shoes plus socks

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests or greenhouses

Do not enter or allow others to enter treated areas until sprays have dried

RESTRICTIONS

- Do not apply with low pressure hand wand equipment except for control of fire ants as a mound treatment and when used on ornamental trees shrubs and floral plants grown for non agricultural or non commercial use
- Not for indoor residential use
- For use on turf use limited to sod farms and golf courses except when applying to mound or spot treatment for fire ant and harvester ant control
- For greenhouse/shadehouse use is limited to commercial greenhouses/shadehouses for use on ornamental floral and foliage plants and the tobacco floatbed application as specified in the tobacco use directions
- Not for use on agricultural establishments in hopper box planter box slurry box or other seed treatment applications at or immediately before planting
- Do not apply this product through any type of irrigation system except as specified for use on cranberries

SPRAY DRIFT MANAGEMENT

Observe the following precautions to minimize drift A variety of factors including weather conditions (e g wind direction wind speed temperature relative humidity) and method of application (e g ground aerial airblast chemigation) can influence pesticide drift The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product

- All aerial ground and air assisted/airblast application equipment must be properly maintained and calibrated using water as carrier Do not apply this product as an ultralow (ULV) spray or in any carrier other than water
- Use the largest droplet size consistent with good pest control Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure
- Do not apply at wind speeds greater than 10 mph at the application site
- Make applications when wind velocity favors on target product deposition (approximately 3 to 10 mph)
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage
- For aerial applications do not apply at heights greater than 10 feet (consistent with flight safety)
- For airblast applications direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows
- For aerial applications the spray boom should be mounted on the aircraft so as to minimize

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drift caused by wing tip vortices The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter

- For ground applications do not apply at heights greater than 4 feet

PRODUCT INFORMATION

ACEPHATE 97 DF is an insecticide for control of pests on selected agricultural crops and in specified non crop areas The active ingredient in ACEPHATE 97 DF is acephate a water soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects Insect pests are generally controlled more effectively by ACEPHATE 97 DF through ingestion than by contact To maintain control repeat application of ACEPHATE 97 DF as directed

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THE LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES

NOTE This product is sold by weight and package is full when packed but due to the product's nature settling is likely to occur

MIXING AND COMPATIBILITY

Fill the spray tank one third to one half full of clean water with agitation running and add the required amount of ACEPHATE 97 DF to the spray tank Add remaining water to bring to the desired volume and maintain agitation during mixing loading and application Do not add any liquid fertilizers micronutrients or adjuvants to the spray solution until the ACEPHATE 97 DF has completely dissolved ACEPHATE 97 DF should completely dissolve in approximately five minutes Dissolution may be slowed by cold water low level of agitation or water containing high concentrations of boron or sulfur

FIRE ANT CONTROL

Under prolonged hot and dry conditions due to the location of ants deep in the nest best results are obtained from applications made in the early morning or late afternoon when ants are most active

TANK MIXES Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user applicator and/or application advisor

Read and follow the entire label of each product to be used in tank mixes with this product

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO BEANS AND LIMA BEANS DRY AND SUCCULENT FORMS (EXCEPT SUCCULENT GREEN BEANS INCLUDING STRING, SNAP AND WAX BEANS)

Ground Application Apply in 20 to 100 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

Aerial Application Make applications of ACEPHATE 97 DF in a minimum of 2 gallons of water per acre Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Fleahoppers Grasshoppers	0.25 to 0.5 lb (4 to 8 oz)	Apply when eggs or insects first appear
Aphids (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworm Leafhoppers Mexican Bean Beetle Plant bugs (Lygus) Soybean Looper Thrips Whitefly (except Sweetpotato & Silverleaf Whitefly)	0.5 to 1 lb (8 to 16 oz)	Repeat at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A) as necessary to maintain control Use higher listed rate for severe insect infestations
Armyworms (excluding Beet Armyworm) Corn Earworm European Corn Borer	0.75 to 1 lb (12 to 16 oz)	
<p>RESTRICTIONS</p> <ul style="list-style-type: none"> • Do not apply more than 2.1 lbs product/A (2 lbs a.i./A) per season • Not for use on succulent green beans (including string snap and wax beans) • Snap beans—dry beans Allow at least 14 days to elapse between final application and harvest • Lima beans—succulent form Allow at least one day to elapse between final application and harvest • Do not feed treated vines to livestock 		

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO BRUSSELS SPROUTS & CAULIFLOWER

Ground Application Apply in 25 to 150 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

Aerial Application Make applications of ACEPHATE 97 DF in a minimum of 5 gallons of water per acre Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Green Peach Aphid	0.5 to 1 lb (8 to 16 oz)	Apply when eggs or insects first appear Repeat applications at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A) as necessary to maintain control
Cabbage Looper Imported Cabbage Worm	1 lb (16 oz)	Use higher listed rate when heavy infestations of aphids are present
Diamondback Moth Larvae	1 lb (16 oz)	This insect has demonstrated an ability to develop resistance to various classes of insecticides Consult your local Agricultural Extension Service for current recommended control practices for this insect
RESTRICTIONS		
<ul style="list-style-type: none"> Do not apply more than 2.1 lbs product/A (2 lbs a.i./A) per crop cycle Allow at least 14 days to elapse between final application and harvest Do not feed trimmings to livestock or allow animals to graze in treated areas 		

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO CELERY

Ground Application Apply in 50 to 100 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

Aerial Application Make applications of ACEPHATE 97 DF in a minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Green Peach Aphid	0.5 to 1 lb (8 to 16 oz)	Apply when eggs or insects first appear Repeat at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A) as necessary to maintain control
Cabbage Looper Fall Army worms	1 lb (16 oz)	Use higher listed rate for severe insect infestations
RESTRICTIONS		
<ul style="list-style-type: none"> Do not apply more than 2.1 lbs product/A (2 lbs a.i./A) per season Allow at least 21 days to elapse between final application and harvest All celery must be trimmed (tops removed) before shipment for use Do not use trimmed tops for food or feed 		

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USE DIRECTIONS FOR COMMERCIALY TREATED COTTONSEED

APPLICATION INSTRUCTIONS ACEPHATE 97 DF contains a water soluble systemic insecticide which helps to reduce injury to cotton seedlings by several insects ACEPHATE 97 DF can be mixed in the slurry tank with most of the fungicide seed treatments in common use It also can be applied as a separate treatment using enough water to give adequate coverage of the seed

When using formulations that do not contain dye compliance with 21 CFR Chapter 1 Section 2.5 requires that all seed treated with a pesticide must be colored to distinguish from and prevent inadvertent use as food for man or feed for animals

Treated seeds must not be used for or mixed with food for animal feed or processed for oil Seeds treated with ACEPHATE 97 DF may be considered adulterated under state and federal laws if sold or shipped as food or feedstuffs Seeds commercially treated with ACEPHATE 97 DF must be labeled as follows TREATED SEED DO NOT USE FOR FOOD FEED OR OIL

Take all precautions and limitations on labeling of all products used in mixtures

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER 100 LBS COTTONSEED	EFFICACY
Cotton Aphids Thrips (including Western Flower Thrips)	0.28 - 0.4 lb (4.5 - 6.4 oz) Lower rate not approved for use in California	Gives effective reduction of thrips and cotton aphids for up to three weeks after planting
Black (Greasy) Cutworm	0.28 - 0.4 lb (4.5 - 6.4 oz) Lower rate not approved for use in California	Gives effective reduction of Black (Greasy) Cutworm from planting through the 3 rd to 4 th leaf stage of development When planting into fields where large cutworms are present (5 th instar and larger) economic damage may occur

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER 100 LBS COTTONSEED	EFFICACY
<p>Restrictions</p> <ul style="list-style-type: none"> • Do not use treated seed for feed food or oil production Excess treated seed may be used for ethanol production only if (1) by products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by products that are used in agronomic practice • Store away from feeds and other foodstuffs • Wear long sleeved shirt long pants and chemical resistant gloves when handling treated seed • Dispose of seed packaging in accordance with local requirements • Exposed treated seed may be hazardous to birds and wildlife Dispose of all excess treated seed by burial away from bodies of water Cover or incorporate spilled treated seeds • Treated seeds must be planted into the soil at the depth of 1 inch or greater • Follow all precautions and limitations on labeling of all products used in mixtures 		

Seed Container Label Requirements

Seed commercially treated with Acephate 97 DF must be labeled in compliance with all the requirements of the Federal Seed Act

In addition all bags containing treated seed must be labeled or tagged with the following information

This seed has been treated with Acephate 97 DF which contains [x] mg active ingredient (a) per seed

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area

Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds

Do not apply more than 4.0 lbs a.i./A per crop cycle This includes all uses of acephate such as commercial seed treatments in furrow spray and foliar applications

Do not use treated seed for food feed or oil production Excess treated seed may be used for ethanol production only if (1) by products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by products that are used in agronomic practice

Store away from feeds and other foodstuffs

Wear long sleeved shirt long pants and chemical resistant gloves when handling treated seed

Dispose of seed packaging in accordance with local requirements

Exposed treated seed may be hazardous to birds and wildlife Dispose of all excess treated seed and seed packaging by burial away from bodies of water Cover or incorporate spilled treated seeds

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Treated seeds must be planted into the soil at the depth of 1 inch or greater

USE DIRECTIONS FOR COTTON

RESTRICTIONS APPLICABLE TO ALL USES ON COTTON

Do not use treated seed for food or feed purposes or process for oil
 Do not feed gin trash or forage to livestock
 Do not allow animals to graze on treated areas
 Do not apply more than 4.125 lbs product/A (4 lbs a.i./A) per season. This includes the use of ACEPHATE 97 DF in commercial seed treatment in furrow and foliar applications
 When applied by air do not apply more than 1.03 lbs a.i. product/A (1 lb a.i./A) in California and Arizona. Do not apply more than 0.77 lb product/A (0.75 lb a.i./A) for all other areas of the US when applied by air

RESISTANCE MANAGEMENT

Cotton pest control programs especially those for control of Silverleaf/Sweetpotato Whitefly populations should employ a properly designed resistance management strategy. Such resistance management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

IN FURROW APPLICATION

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Aphids (excluding Cotton Aphids in AZ & CA) Black (Greasy) Cutworm (except CA) Thrips	0.5 to 1 lb (8 to 16 oz) For the Blacklands of Texas use 1 lb /A ACEPHATE 97 DF	Apply in water at 3 to 5 gallons carrier per acre as an in furrow spray. Use flat fan nozzles for in furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Do not use cone type nozzles since unacceptable spray deposition may occur. Securely fasten spray system tubing to furrow opener and check frequently to ensure proper positioning and operation. Use higher listed rates for severe insect infestations. ACEPHATE 97 DF can be mixed with fungicides that are sprayed in furrow for plant disease control. PHI 0 days

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FOLIAR APPLICATIONS

Ground Application Apply in 10 to 25 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

Aerial Application Make applications of ACEPHATE 97 DF in 3 to 10 gallons of water per acre (minimum of 5 gallons per acre in AZ & CA) Use sufficient carrier volume to provide thorough uniform coverage Do not apply ACEPHATE 97 DF at more than 1.03 lbs product/A (1 lb a i /A) in California and Arizona and not more than 0.77 lb product/A (0.75 lb a i /A) for all other areas of the United States Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Thrips	0.16 to 0.19 lb (2.5 oz to 3.0 oz)	Apply when eggs or insects first appear Repeat applications at 3 day intervals as necessary to maintain control * Use higher listed rates for severe insect infestations
Plant bugs (Lygus)	0.25 to 1 lb (4 to 16 oz) AZ & CA 0.75 to 1 lb (12 to 16 oz)	Apply when eggs or insects first appear Use highest rate for Lygus adults that have migrated into cotton Repeat applications 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i /A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i /A) as necessary to maintain control * Use higher listed rates for severe insect infestations
Fleahoppers	0.25 lb (4 oz)	Apply when eggs or insects first appear Repeat applications at 3 day intervals as necessary to maintain control *
Cotton Aphid (excluding AZ & CA)	0.5 to 1 lb (8 to 16 oz)	This insect may develop resistance to various classes of insecticides Consult your local Agricultural Extension Service for current control recommendations Repeat applications at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i /A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i /A) as necessary to maintain control * Use higher listed rates for severe insect infestations
Whitefly (excluding Sweetpotato & Silverleaf Whitefly)	0.5 to 1 lb (8 to 16 oz)	Repeat applications at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i /A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i /A) as necessary to maintain control * Use higher listed rates for severe insect infestations

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Armyworms (excluding Beet Armyworm) Cabbage Looper	1 lb (16 oz)	Apply when eggs appear and repeat at 7 day spray intervals *
Bollworm Tobacco Budworm Adults Larvae Eggs	East of Rockies 0.5 to 1 lb (8 to 16 oz) AZ & CA 1 lb (16 oz)	Early Season Use 0.5 lb product/A for light infestation Mid and Late Season Use 0.75 to 1 lb product/A for moderate to severe infestations Apply when eggs appear and repeat at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i /A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i /A) * Use higher listed rates for severe insect infestations Moths of budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made
Stink bugs	0.75 lb (12 oz)	Apply when eggs appear and repeat at 7 day spray intervals *
Pink Bollworm (AZ & CA)	1 lb (16 oz)	Apply when insects appear and repeat at 7 day spray intervals *
Cutworms	0.75 lb (12 oz)	Ground application is recommended. Aerial applications are less effective but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat applications at 7 day spray intervals as necessary to maintain control *
RESTRICTIONS <ul style="list-style-type: none"> Allow at least 21 days to elapse between final application and harvest *See restrictions applicable to all uses on cotton		

COTTON TANK MIXES FOR FOLIAR APPLICATION

Ground Application Apply in 10 to 25 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

Aerial Application Make applications of ACEPHATE 97 DF in 3 to 10 gallons of water per acre (minimum of 5 gallons per acre in AZ & CA) Use sufficient carrier volume to provide thorough uniform coverage Do not apply ACEPHATE 97 DF at more than 1.03 lbs product/A (1 lb a i /A) in California and Arizona and not more than 0.77 lb product/A (0.75 lb a i /A) for all other areas of the United States Use sufficient carrier volume to provide thorough uniform coverage

RESTRICTIONS APPLICABLE TO ALL USES ON COTTON

Do not use treated seed for food or feed purposes or process for oil

Do not feed gin trash or forage to livestock

Do not allow animals to graze on treated areas

Do not apply more than 4.125 lbs product/A (4 lbs a i /A) per season This includes the use of ACEPHATE 97 DF in commercial seed treatment in furrow and foliar applications

Always read and follow all label directions when using any pesticide alone or in tank mix combinations Follow all restrictions and precautions which appear on all product labels The most restrictive labeling applies when using a tank mix

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF + TANK MIX PARTNER PER ACRE	APPLICATION INSTRUCTIONS
Sweetpotato & Silverleaf Whitefly	0.5 lb (8 oz) + DANITOL® 2.4 EC 8 to 16 fl oz	Apply when insects first appear or when damage is first noted and repeat applications at 3 day spray intervals as necessary to maintain control * Use a minimum application rate of 10.66 fl oz /acre DANITOL® 2.4 EC (0.2 lb a i /acre) in CA and AZ Always read and follow all applicable directions restrictions and precautions on the EPA registered label for DANITOL® 2.4 EC Spray

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF + TANK MIX PARTNER PER ACRE	APPLICATION INSTRUCTIONS
Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Fleahoppers Grasshoppers Pink Bollworm Plant bugs (Lygus Mirids) Salt Marsh Caterpillar Thrips Tobacco Budworm Whitefly (excluding Sweetpotato & Silverleaf Whitefly)	0.25 to 1 lb (4 to 16 oz) + Lorsban 4E 1 to 2 pts	Always read and follow all applicable directions, restrictions, and precautions on the EPA registered label for Lorsban 4E. Apply when insects first appear or when damage is first noted and repeat applications at 3 day spray intervals for rates up to 0.52 lb ACEPHATE 97 DF/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb ACEPHATE 97 DF/A (0.5 lb a.i./A) as necessary to maintain control.* Use higher listed rate for severe insect infestations.
Cutworms	0.75 lb (12 oz) + Lorsban 4E 1 to 2 pts	Apply when insects first appear or when damage is first noted and repeat application at 7 day spray intervals as necessary to maintain control.* Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant.
RESTRICTIONS Allow at least 21 days to elapse between final application and harvest *See restrictions applicable to all uses on cotton		

COTTON TANK MIXES WITH PYRETHROIDS FOR FOLIAR APPLICATIONS

Ground Application Apply in 10 to 25 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.

Aerial Application Make applications of ACEPHATE 97 DF in 3 to 10 gallons of water per acre (minimum of 5 gallons per acre in AZ & CA). Use sufficient carrier volume to provide thorough uniform coverage. Do not apply ACEPHATE 97 DF at more than 1.03 lbs product/A (1 lb a.i./A) in California and Arizona and not more than 0.77 lb product/A (0.75 lb a.i./A) for all other areas of the United States. Use sufficient carrier volume to provide thorough uniform coverage.

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RESTRICTIONS APPLICABLE TO ALL USES ON COTTON

Do not use treated seed for food or feed purposes or process for oil

Do not feed gin trash or forage to livestock

Do not allow animals to graze on treated areas

Do not apply more than 4 125 lbs product/A (4 lbs a i /A) per season This includes the use of ACEPHATE 97 DF in commercial seed treatment in furrow and foliar applications

Always read and follow all label directions when using any pesticide alone or in tank mix combinations Follow all restrictions and precautions that appear on all product labels The most restrictive labeling applies when using a tank mix Use synthetic pyrethroids within the guidelines of state and/or regional resistance management programs and recommendations

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF + TANK MIX PARTNER	APPLICATION INSTRUCTIONS
Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Fall Armyworm Fleahoppers Pink Bollworm (AZ & CA) Plant bugs Sweetpotato & Silverleaf Whitefly Thrips Tobacco Budworm Whiteflies	0.5 to 1 lb /A (8 to 16 oz) + Ammo 2.5EC (Follow label directions) or ASANA® XL (Follow label directions) or BAYTHROID®2EC (Follow label directions) or CAPTURE® 2 EC (Follow label directions) or Karate 1E (Follow label directions) or SCOUT® X TRA (Follow label directions)	Begin applications when eggs or insects first appear Repeat application at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i /A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i /A) as necessary to maintain control * Use higher listed rate for severe insect infestations
Cutworms	0.75 lb /A (12 oz) + Any synthetic pyrethroid listed above	Control is most effective when ground applications are made in the evenings and sprays are directed toward the base and lower portion of plant Repeat applications at 7 day spray intervals as necessary to maintain control * Directed ground applications are most effective Aerial applications are less effective but may be used

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF + TANK MIX PARTNER	APPLICATION INSTRUCTIONS
Stink bugs	0.75 lb /A (12 oz) + Any synthetic pyrethroid listed above	Apply when eggs or insects first appear Repeat application at 7 day spray intervals necessary to maintain control *
RESTRICTIONS Allow at least 21 days to elapse between final application and harvest *See restrictions applicable to all uses on cotton		

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO CRANBERRY

Ground Application Apply with conventional ground equipment in sufficient water to ensure thorough coverage of the target crop

Aerial Application Make aerial applications in a minimum of 2 gallons of water per acre. Use sufficient carrier volume to provide thorough uniform coverage

Chemigation Application This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system. Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to ensure adequate mixing. Application of more than label specified quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

RESTRICTIONS FOR APPLICATIONS THROUGH CHEMIGATION SYSTEMS

Do not connect an irrigation system (including greenhouse/shadehouse systems) used for pesticide application to a public water system unless the label prescribed safety devices for public water systems are in place

- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Do not apply when wind speed favors drift beyond the area intended for treatment
- If you have questions about calibration you should contact State Extension Service specialists, equipment manufacturers, or other experts
- **Solid Set System** Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period.
- **Center Pivot Systems** Inject the specified dosage per acre continuously for one complete revolution of the system.

CRANBERRY

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Cranberry Blossomworm Cranberry Cutworm Gypsy Moth False Armyworm Fireworms Spanworms Sparganothis	1 lb (16 oz)	Apply when insects first appear *
<p>RESTRICTIONS</p> <ul style="list-style-type: none"> • Limit to one application per growing season. Do not apply more than 1.03 lbs product/A (1.0 lb a.i./A) per season. • The pre-harvest interval (PHI) is 75 days in the states of MA, NJ, OR, WA, WI and 90 days in all other states. • Do not apply from start of bloom until all berries set. 		

**USE DIRECTIONS FOR FOLIAR APPLICATIONS TO HEAD LETTUCE
Crisphead Type Only**

Ground Application Apply in 10 to 60 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.

Aerial Application Make aerial applications in minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Aster Leafhopper Green Peach Aphid	0.5 to 1 lb (8 to 16 oz)	Repeat application at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A) as necessary to maintain control
Armyworm (excluding Beet Armyworm) Cabbage Looper	1 lb (16 oz)	Use higher listed rate for severe insect infestations For use on Spring Summer and early Fall crops in all areas Winter crops in Florida and Texas late Fall crops in Arizona and Winter crops in Arizona and California
RESTRICTIONS		
Do not apply more than 2.1 lbs /A (2 lbs a.i.) per season Allow at least 21 days to elapse between final application and harvest Do not feed trimmings to livestock or allow animals to graze on treated areas Do not apply after first head begins to form in crops which germinate from mid September through November in desert areas of AZ & CA		

**USE DIRECTIONS FOR FOLIAR APPLICATIONS TO NON BEARING CITRUS
(Newly Planted Groves) Agricultural Settings ONLY**

FOLIAR APPLICATIONS

Ground Application Apply in 100 to 200 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Aphids Grasshoppers Katydid Mealybugs Orangedog Plant bugs Thrips Whiteflies (except Sweetpotato & Silverleaf Whitefly)	0.5 lb (8 oz)	Apply at 3 day spray intervals as necessary to maintain control Spray individual juvenile or non bearing trees for coverage with total application not to exceed specified rate in lbs per acre Length of residual activity will depend upon spray coverage and the amount of moisture following application

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Citrus Blackfly*	0.5 to 0.75 lb (8 to 12 oz)	Apply when eggs or insects first appear Use higher listed rate for severe insect infestations Repeat at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A)
Ants (excluding fire harvester carpenter and fire ants)	0.75 lb (12 oz)	Repeat at 7 day spray intervals as necessary to maintain control

RESTRICTIONS

- Do not graze treated areas
- Do not harvest citrus for one year after treatment

*Not registered in California for control of Citrus Blackfly

SOIL MOUND DRENCHES

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Fire Ants & Harvester Ants*	0.75 oz/5 gals water	Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound

RESTRICTIONS

- Do not graze treated areas
- Do not harvest citrus for one year after treatment

*Not registered in California for control of Harvester Ants

For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest.

USE DIRECTIONS FOR NON CROP AREAS

FIELD BORDERS, FENCEROWS, ROADSIDES, DITCHBANKS, AND BORROW PITS

Ground Application Apply in 10 to 20 gallons of water per acre by conventional ground equipment to ensure thorough coverage

Aerial Application Make aerial applications in minimum of 1 to 5 gallons of water per acre (minimum 5 gallons/A in CA). Use sufficient carrier volume to provide thorough uniform coverage

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Grasshoppers	0.25 lb (4 oz)	For early to mid season application Use the higher volumes when spraying dense foliage An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays
RESTRICTIONS		
<ul style="list-style-type: none"> Do not graze or feed vegetation cut from treated areas 		

WASTELAND

Ground Application Apply in 10 to 20 gallons of water per acre by conventional ground equipment to ensure thorough coverage

Aerial Application Make aerial applications in minimum of 1/2 gallon of water per acre (minimum 5 gallons/acre in CA) Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Black Grass Bugs Grasshoppers Mormon Crickets	0.094 to 0.125 lb (1.5 oz to 2 oz)	Use the higher volumes when spraying dense foliage An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays Use higher listed rate for severe insect infestations
RESTRICTIONS		
<ul style="list-style-type: none"> Do not make more than one application per season Do not graze or feed vegetation cut from treated areas 		

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO PEANUTS

Ground Application Apply in 10 to 50 gallons of water per acre by conventional ground equipment to ensure thorough coverage

Aerial Application Make aerial applications in 5 to 10 gallons of water per acre Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Grasshoppers	0.25 to 0.5 lb (4 to 8 oz)	Apply when eggs or insects first appear Repeat application at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A) as necessary to maintain control Use higher listed rates for severe insect infestations
Thrips	0.375 to 0.75 lb (6 to 12 oz)	ACEPHATE 97 DF can be tank mixed with registered herbicides provided those products do not prohibit tank mixes provided the most restrictive of label limitations and precautions are followed and provided no label dosage rates are exceeded
Corn Earworm Fall Army worm Leafhoppers Loopers Velvetbean Caterpillar	0.75 to 1 lb (12 to 16 oz)	To determine physical compatibility pour the specified proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container. Mix thoroughly and allow to stand for five minutes. If the combination remains mixed or can be remixed readily the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations add and disperse these first then add liquid pesticides. Do not use the mix combination if there is any separation which cannot be readily remixed. Combinations should be kept agitated and applied immediately. Do not allow combinations to set for prolonged periods in the chemical supply tank or irrigation lines.
RESTRICTIONS Do not apply more than 4.125 lbs product/A (4 lbs a.i./A) per season Allow at least 14 days to elapse between final application and digging or lifting of peanuts Do not feed treated forage or hay to livestock Do not allow animals to graze on treated areas		

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO PEPPERMINT AND SPEARMINT

Ground Application Apply in 20 to 100 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop

Aerial Application Make aerial applications in minimum of 5 to 10 gallons of water per acre. Use sufficient carrier volume to provide thorough uniform coverage

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Alfalfa Looper Aphids Cutworms	1 lb (16 oz)	Apply when eggs or insects first appear Make one repeat application at no less than 7 day spray interval if necessary to maintain control
Strawberry Root Weevil Adult Black Vine Weevil Adult	1 lb (16 oz)	For control apply in water in a minimum of 40 gallons spray per acre by ground Good spray coverage and canopy spray penetration is critical for control Increase spray volume and pressure with tall or dense mint canopy Apply after adult emergence is complete but prior to egg laying Apply at dusk or during the night on a warm still evening Two applications 10 to 14 days apart may be necessary to reduce heavy infestations
RESTRICTIONS Do not apply more than 2 1 lbs product/A (2 lbs a i /A) per season Allow at least 14 days to elapse between final application and harvest The grazing of animals on treated areas and the feeding of spent mint hay to animals are prohibited		

USE DIRECTIONS FOR FOLIAR APPLICATIONS TO PEPPERS

BELL

Ground Application Apply in 25 to 150 gallons of water per acre by conventional ground equipment to ensure thorough coverage

Aerial Application Make aerial applications in minimum of 3 gallons of water per acre (minimum of 5 gallons/A in CA) Use sufficient carrier volume to provide thorough uniform coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Grasshoppers	0 25 to 0 5 lb (4 to 8 oz)	Apply when eggs or insects first appear Repeat at 3 day spray intervals for rates up to 0 52 lb product/A (0 5 lb a i /A) and at 7 day spray intervals for rates greater than 0 52 lb product/A (0 5 lb a i /A) as necessary to maintain insect pest populations below economically damaging numbers Use higher listed rate for severe insect infestations
Cabbage Looper Green Peach Aphid Tobacco Hornworm	0 5 to 1 lb (8 to 16oz)	
European Corn Borer	0 75 to 1 lb (12 to 16 oz)	
RESTRICTIONS Do not apply more than 2 1 lbs product/A (2 lbs a i /A) per season Allow at least 7 days to elapse between final application and harvest		

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NON BELL (For use only in Midwestern states, Eastern states, and Puerto Rico)

Ground Application Apply in 40 to 150 gallons of water per acre by conventional ground equipment to ensure thorough coverage

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Aphids	0.5 lb (8 oz)	Repeat at 3 day spray intervals as necessary
RESTRICTIONS Do not apply more than 1.03 lbs product/A (1.0 lb a i /A) per season Allow at least 7 days to elapse between final application and harvest		

USE DIRECTIONS FOR SOYBEANS

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Grasshopper Thrips	0.25 to 0.5 lb (4 to 8 oz)	Apply when eggs or insects first appear Repeat applications as necessary to maintain insect pest populations below economically damaging numbers
Potato Leafhopper Stink bugs	0.5 to 1 lb (8 to 16 oz)	
Armyworms (except Beet) Bean Leaf Beetle Cabbage Looper Green Cloverworm Mexican Bean Beetle Soybean Aphid Threecornered Alfalfa Hopper Velvetbean Caterpillar	0.75 to 1 lb (12 to 16 oz)	Repeat application at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i /A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i /A) as necessary to maintain control Use higher listed rate for severe insect infestations Ground Application Apply in 10 to 50 gallons per acre by conventional ground equipment to ensure thorough coverage Aerial Application Make aerial applications in 5 to 10 gallons per acre (minimum of 5 gallons/A in CA) Use sufficient carrier volume to provide thorough uniform coverage
RESTRICTIONS Do not apply more than 1.55 lbs product/A (1.5 lbs a i /A) per crop cycle Allow at least 14 days to elapse between final application and harvest Do not graze or cut vines for hay or forage		

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USE DIRECTIONS FOR TOBACCO**TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)**

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Cutworms Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	0.75 lb (12 oz)	Provides control of early season flea beetles, green peach aphids, tobacco aphids, and cutworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of ACEPHATE 97 DF. Apply in a minimum of 100 gallons of transplant water per acre. ACEPHATE 97 DF should be pre-mixed in water to form a slurry solution prior to adding to the transplant water tank. Do not apply more than 0.75 lb ACEPHATE 97 DF per acre as a transplant water application as some phytotoxicity may occur.

RESTRICTIONS

- Do not apply more than 4.125 lbs product/A (4 lbs a i /A) per season. This includes the use of ACEPHATE 97 DF in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.
- Make transplant water applications using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.

TOBACCO FOLIAR APPLICATION (EXCEPT CA)

Ground Application Apply in 10 to 50 gallons of water per acre by conventional ground equipment to ensure thorough coverage.

Aerial Application Make aerial applications in minimum of 3 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.

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PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Grasshoppers	0.25 to 0.5 lb (4 to 8 oz)	Apply at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a.i./A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a.i./A) as needed Use higher listed rate for severe insect infestations
Green Peach Aphid Flea Beetle Hornworm Tobacco Thrips	0.5 lb (8 oz)	
Stink bugs Tobacco Aphid Vegetable Weevils	0.5 to 0.75 lb (8 to 12 oz)	
Budworm Cabbage Looper Cutworm Japanese Beetle	0.75 lb (12 oz)	
RESTRICTIONS Do not apply more than 4.125 lbs product/A (4 lbs a.i./A) per season. This includes the use of ACEPHATE 97 DF in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications. Allow at least 3 days to elapse between final application and harvest.		
Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	0.75 lb (12 oz)	Apply to foliage at the equivalent of 3/4 tablespoon in 1 gallon of water per every 1,000 sq ft of bed. Apply evenly to ensure thorough coverage. Apply at 7 day intervals as needed.
RESTRICTIONS • Do not apply more than 4.125 lbs product/A (4 lbs a.i./A) per season. This includes the use of ACEPHATE 97 DF in transplant water, plant bed, soil, float bed (greenhouse) and foliar applications.		

TOBACCO GREENHOUSE (FLOATBED) APPLICATION (EXCEPT CA)

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION INSTRUCTIONS
Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	0.75 lb (12 oz)	Apply to foliage at the equivalent of 3/4 tablespoon in 3 gallons water per every 1,000 sq ft of bed. Apply evenly to ensure thorough coverage. Apply at 7 day intervals as needed.

RESTRICTIONS

- Do not apply more than 4 125 lbs product/A (4 lbs a i /A) per season This includes the use of ACEPHATE 97 DF in transplant water plant bed soil float bed (greenhouse) and foliar applications
- Dispose of floatbed water in the transplanted field by either transplant water or foliar spray

TOBACCO SOIL MOUND DRENCH APPLICATION (EXCEPT CA)

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 DF	APPLICATION INSTRUCTIONS
Fire Ant & Harvester Ant	Mix 0.75 oz in 5 gallons of water Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound	When insects first appear

RESTRICTIONS

- Do not apply more than 4 125 lbs product/A (4 lbs a i /A) per season This includes the use of ACEPHATE 97 DF in transplant water plant bed soil float bed (greenhouse) and foliar applications
- Allow at least 3 days to elapse between final application and harvest
- Treat maximum of 13 mounds per acre
- Do not treat more than once per season

For best results apply the material in the early morning or late afternoon when the ants are most active Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest

SPECIALITY USES

CROP TOLERANCE

ACEPHATE 97 DF is generally not phytotoxic to most greenhouse/shadehouse or field grown plants or turf However it is impossible to test all plant varieties and cultural conditions Before treating large plantings apply to a representative group of plants and observe for two weeks to assure that a particular variety grown under current conditions is not sensitive to ACEPHATE 97 DF Use on turfgrass is limited to sod farms and golf courses except when applying by mound or spot treatment for fire ant and harvester ant control

The following have been found to be sensitive to ACEPHATE 97 DF

Trees Balm of Gilead Cottonwood Lombardy Poplar or Viburnum suspensum and Crabapple varieties Ichonoski Malus floribunda Pink Perfection Red Wine and Snow Cloud
Plants Bletchum gibbum Cissus antarctica Ficus triangularis Fittonia verschaffeltii Maranta leuconeura kerchoviana Pachystachys lutea Plectranthus australis Polypodium aureus Polystichum Pteris ensiformis Tolmiea menziesii

Chrysanthemum Varieties Albatross Bonnie Jean Dixie Garland Gem Iceberg Pride Showoff Statesman Tally Ho Westward Ho and Wild Honey Applications to Chrysanthemums and Roses with open flowers may result in flower damage

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SPECIALITY USES

SMALL SPRAY EQUIPMENT

PREPARATION OF ACEPHATE 97 DF SPRAY MIX

LABEL DIRECTION PER ACRE IN 100 GALLONS OF WATER	EQUIVALENT PER ACRE IN 25 GALLONS WATER*	EQUIVALENT PER ACRE IN 1 GALLON WATER (TEASPOONS/GALLON)
0 25 lb	1 oz	1/3 tsp
0 50 lb	2 oz	2/3 tsp
0 75 lb	3 oz	1 tsp
1 00 lb	4 oz	1 1/3 tsp

NON BEARING CITRUS

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Non bearing citrus (including citrus nursery seedlings)	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plant bugs (Lygus) Thrips Whiteflies	0 5 lb (8 oz)	Apply at 3 day spray intervals as needed for control of existing populations	Apply in 100 to 200 gallons of water per acre Spray individual juvenile or non bearing trees for coverage with total application not to exceed specified rate in lbs per acre Length of residual activity will depend upon spray coverage and the amount of moisture following application
	Citrus Blackfly	0 5 to 0 75 lb (8 to 12 oz)	Begin applications when eggs or adults first appear Apply at 3 day spray intervals for rates up to 0 52 lb product/A (0 5 lb a i /A) and at 7 day spray intervals for rates greater than 0 52 lb product/A (0 5 lb a i /A) to maintain control Use the higher listed rate when a heavy infestation of Citrus Blackfly is present Begin applications when eggs or adults first appear	

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Non bearing citrus (including citrus nursery seedlings)	Ants (excluding fire harvester carpenter and pharaoh ants)	Foliar spray 0.75 lb (12 oz)	Apply at 7 day spray intervals as needed for control of existing populations	
	Fire Ants and Harvester Ants	Mound Treatment Drench Method	Mix 0.75 oz product in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound. Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest.	

RESTRICTIONS

- Do not allow livestock to graze treated areas
- Do not harvest citrus for one year after treatment

NURSERY STOCK NON BEARING DECIDUOUS FRUIT TREES, NUT TREES AND VINES IN NURSERY FIELD OR NON BEARING ORCHARDS

Ground Application Apply in 50 to 100 gallons of water per acre in conventional equipment to ensure thorough coverage of the target plants

Aerial Application Apply in a minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough coverage

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER	APPLICATION TIMING
Nursery stock (non bearing Deciduous Fruit Trees Nut Trees Vines) Almond Apricot Apple Cherry Grape Kiwi Pear Pistachio Plum Prune Walnut	Aphids Plant bugs (Lygus) Thrips	0.5 to 1 lb (8 to 16 oz)	Apply at 3 day spray intervals for rates up to 0.52 lb product/A (0.5 lb a i/A) and at 7 day spray intervals for rates greater than 0.52 lb product/A (0.5 lb a i/A) as needed for control of existing populations Use higher listed rate for severe insect infestations

RESTRICTIONS

- For application only to non bearing trees and vines in nursery fields or in non bearing orchards Do not apply to interplants or single trees in a bearing orchard
- Do not harvest any fruit from sprayed trees for one year after application
- Do not allow livestock to graze treated area
- Do not exceed 1 lb product/A

SPECIALTY USES NON CROP AREAS

CROP	INSECTS	AMOUNT OF ACEPHATE 97 DF PER ACRE
Non crop areas (field borders fencerows roadsides ditchbanks and borrow pits)	Grasshoppers	0.25 lb (4 oz)

RESTRICTIONS

- Apply in 1 to 5 gallons of water by air or in 10 to 20 gallons of water with ground equipment Use the higher volumes when spraying heavier foliage
- Do not graze or feed vegetation cut from treated areas

For early to mid season application to grasshoppers in field borders fencerows roadsides ditch banks and borrow pits

Non crop areas (field borders fencerows roadsides ditchbanks and borrow pits)	Fire Ants and Harvester Ants	Mound Treatment Drench Method Mix 0.75 oz product in 5 gallons of water Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound
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CROP	INSECTS	AMOUNT OF ACEPHATE 97 DF PER ACRE
RESTRICTIONS		
<ul style="list-style-type: none"> Do not treat mound more than once per season <p>Grass in the treated area may be injured For best results apply the material in the early morning or late afternoon when the ants are most active Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest</p>		

CONTAINER GROWN NURSERY STOCK

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER ACRE	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Container Grown Nursery Stock (Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew)	Black Vine Weevil Strawberry Root Weevil	0.75 lb (12 oz)	Application should be made by mid September for greenhouse/ shadehouse stock and by mid October for outdoor stock Consult your local county extension agent for information on the identification and control of root weevils on ornamentals	Apply the specified amount of ACEPHATE 97 DF spray per 100 gallons of solution so as to thoroughly drench the root system Apply at 7 day spray intervals to maintain control
	Ants (excluding fire harvester carpenter and pharaoh ants)	0.75 lb (12 oz)	Apply as needed to control the pest	

RESTRICTIONS
<ul style="list-style-type: none"> Do not apply more than 0.75 lb product/A

ORNAMENTAL TREES AND SHRUBS

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Trees & Shrubs (except Douglas Fir Flowering Crabapple and Crape Myrtle) – see below	Aphids Bagworms Birch Leafminer Lace Bugs Leafrollers Tent Caterpillar*	0.25 lb (4 oz)	As the insects begin to appear	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray Mist Blower Application Adjust rates to 1 lb product per 100 gallons of water for Gypsy Moth control and 0.75 lb product per 100 gallons of water for Tent Caterpillar control
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	0.5 lb (8 oz)	As the insects begin to appear	
	Scales (crawlers)	0.5 lb (8 oz)	As crawlers begin to appear Repeat applications at a 2 week or more frequent interval may be necessary where there is continuous crawler production	The addition of a suitable sticker improves control of Gypsy Moth larvae Repeat at 14 day spray intervals as necessary to maintain control
	Ponderosa Pine Needle Miner	0.5 lb (8 oz)	Time of application is important Consult your Farm Advisor or County Extension Agent	
	Grasshoppers	0.5 lb (8 oz)	As the grasshoppers begin to appear	
	California Oakworm Cankerworms (Spring & Fall)	0.25 to 0.5 lb (4 to 8 oz)	As the insects begin to appear Use the higher listed amount when larger larvae are present	

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Trees & Shrubs (except Douglas Fir Flowering Crabapple and Crape Myrtle) – see below	Nantucket Pine Tip Moth Larvae	0.75 lb (12 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Repeat at 14 day spray intervals as necessary to maintain control.
	Root Weevil Adults	0.75 lb (12 oz)	Apply when first feeding damage occurs. Repeat applications at 4 week intervals until the first heavy frost may be necessary for complete foliage protection.	
	Box Elder Bugs Budworms Leafhoppers Sawflies	0.75 lb (12 oz)	As the insects begin to appear.	
	Japanese Beetle	1 lb (16 oz)	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	
	Elm Leaf Beetle (larvae)	1 lb (16 oz)	As the larvae begin to appear. ACEPHATE 97 DF will not prevent Elm Leaf Beetle eggs from hatching.	

RESTRICTIONS

- Do not apply more often than 3 times in a growing season to trees and shrubs
- Do not apply more than 1.0 lb product/A/ 100 gallons of water

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	0.5 lb (8 oz) (0.5 lb per acre)	Make applications no more than 2 weeks prior to bud burst For additional pest management information consult your County Extension Agent	Apply the specified amount of ACEPHATE 97 DF in not less than 2 gallons of spray per acre by air or in 100 gallons of spray per acre by ground
RESTRICTIONS <ul style="list-style-type: none"> Do not apply more than 0.5 lb product/A/ 100 gallons of water Do not treat more than once per season 				
Flowering Crabapple	Aphids Leafrollers Tent Caterpillars	0.25 lb (4 oz)	As the insects begin to appear	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer
RESTRICTIONS <ul style="list-style-type: none"> Do not apply more often than 3 times in a growing season at 28 day intervals Do not apply more than 0.25 lb product/A/ 100 gallons of water <p>Phytotoxicity has occurred on the following Crabapple varieties: Hops, Ichonoski, Malus floribunda, Pink Perfection, Red Wine and Snow Cloud</p>				
Crape Myrtle	Aphids	2 to 3 level tsp (0.6 to 0.8 oz) per tbsp water as paint on	As aphids begin to appear	Make a paint on slurry by mixing the specified amount of ACEPHATE 97 DF with 1 tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Make applications to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants, be certain to treat all trunks. For either

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
				single or multi trunk plants make application as low as possible within the specified treatment zone

OUTDOOR FLORAL CROPS AND GROUND COVERS

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALLONS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Chrysanthemums Daisies Dahlias Easter Lily Gladioli Gypsophila Pachysandra Peony Roses Sedum Statice Strawflower Yarrow Zinnia	Aphids Lygus Thrips	0.5 lb (8 oz)	As insects begin to appear Repeat applications may be necessary	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray Repeat at 14 day spray intervals as necessary to maintain control
Boston Ivy Roses	Japanese Beetle	1 lb (16 oz)	As the Japanese Beetle begin to appear Repeat applications at 2 week intervals may be necessary	

RESTRICTIONS

- Do not apply more than 1.0 lb product/A/ 100 gallons of water
- Do not apply more than 0.77 lb product/A (0.75 a i /A) to cut flowers

Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties
Test on a few plants to determine varietal susceptibility

COMMERCIAL GREENHOUSE/SHADEHOUSE FLORAL AND FOLIAGE PLANT CROPS
Not for use in residential greenhouses/shadehouses

RESTRICTIONS FOR ALL USES

- Do not apply under conditions involving possible drift to food forage or other plantings that might be damaged or the crops thereof rendered unfit for sale use or consumption
- Do not apply with low pressure handwand equipment

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALLONS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Roses	Leafrollers	0.5 to 0.75 lb (8 to 12 oz)	As leafrollers begin to appear Use the higher listed amount when large larvae are present	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Use higher listed rate for severe insect infestations.

RESTRICTIONS

- Do not apply more than 0.75 lb product/A/100 gallons of water
- Do not apply at less than 14 day spray intervals

Application to roses with open flowers is not recommended

Anthuriums Cacti Foliage Plants Orchids Poinsettia	Aphids	0.25 lb (4 oz)	As aphids begin to appear	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.
	Mealybugs Thrips Whiteflies	0.5 lb (8 oz)	As the insects begin to appear A repeat application at a 2 week interval may be necessary for control of mealybugs and whiteflies	

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALLONS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
	Scales (crawlers)	0.5 lb (8 oz)	As crawlers begin to appear Repeat applications at a 2 week or more frequent interval may be necessary where there is continuous crawler production	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray The addition of a wetting agent may be required on difficult to wet foliage
<p>RESTRICTIONS</p> <ul style="list-style-type: none"> Do not apply more than 0.5 lb product/A/100 gallons of water Do not apply at less than 14 day spray intervals <p>Phytotoxicity has occurred on the following plants Bletchum gibbum Cissus antarctica Ficus triangularis Fittonia verschaffeltii Maranta leuconeura kerchoviana Plectranthus lutes Plectranthus australis Polypodium aureus Polystichum Pteris ensiformis Tolmiea menziesii</p> <p>Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity Application to poinsettias after bract formation may result in phytotoxicity on certain varieties</p>				
Anthuriums Cacti Foliage Plants Orchids Poinsettia	Sweet potato/ Silverleaf Whiteflies (except CA)	0.25 lb (4 oz) + TAME® 2.4 EC 10.66 fl oz (0.2 lb a l)	Apply when insects first appear If a population is well established make one application of the tank mix and follow 5 to 7 days later with TAME® 2.4 EC alone at 16 fl oz /100 gallons See the TAME® 2.4 EC label for instructions	Apply the specified amount of ACEPHATE 97 DF plus TAME® 2.4 EC Spray as a tank mix at a volume necessary to obtain good coverage Follow the TAME® 2.4 EC label for specific instructions on the alternation of TAME® 2.4 EC plus ACEPHATE 97 DF and TAME® 2.4 EC alone and the rotation instruction to avoid potential resistance

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 100 GALLONS	APPLICATION TIMING	APPLICATION INSTRUCTIONS
RESTRICTIONS <ul style="list-style-type: none"> Do not apply more than 0.25 lb product/A/100 gallons of water Do not apply at less than 14 day spray intervals 				
Carnations Chrysanthemums Roses	Aphids Thrips	0.5 lb (8 oz)	As aphids begin to appear As thrips begin to appear or at the tight flower bud stage Repeat applications may be necessary	Apply the specified amount of ACEPHATE 97 DF in 100 gallons of water with a hydraulic sprayer as a full coverage spray
RESTRICTIONS <ul style="list-style-type: none"> Do not apply more often than once every 14 days Do not apply more than 0.5 lb product/A/100 gallons of water <p>Phytotoxicity has occurred on the following Chrysanthemum varieties Albatross Bonnie Jean Dixie Garland Gent Iceberg Pride Showoff Statesman Tally Ho Westward Ho & Wild Honey Before treating large Chrysanthemum plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity Application to chrysanthemums and roses with open flowers is not recommended</p>				

COMMERCIAL TURFGRASS GOLF COURSES AND SOD FARMS ONLY

Restrictions

- Do not allow livestock to graze treated areas
- Do not feed treated grass to livestock Use is limited to sod farms and golf courses except when applying by mound or spot treatment for fire ant and harvester ant control
- Aerial applications to turf are prohibited

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 1000 SQ FT	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Turfgrass (Golf Courses and Sod Farms only)	Fall Army worm Yellow Striped Armyworm Southern Armyworm	0.4 to 0.9 oz (1 to 2.5 lbs per acre)	As the insects appear A repeat application at a 14 day interval may be necessary	Apply the specified amount of ACEPHATE 97 DF per 1 000 sq ft Use a minimum of 5 gallons of water per 1 000 sq ft to obtain good coverage
	Cutworm	Golf Courses 0.9 to 1.5 oz (2.5 to 4.12 lbs per acre) Sod Farms 0.9 to 1.1 oz (2.5 to 3.09 lbs per acre)		Use higher listed rate for severe insect infestations
	Chinch Bugs	Golf Courses 0.9 to 1.5 oz (2.5 to 4.12 lbs per acre) Sod Farms 0.9 to 1.1 oz (2.5 to 3.09 lbs per acre)	Apply as needed for adult population knockdown Apply at 10 to 14 day intervals as needed	Apply the specified amount of ACEPHATE 97 DF per 1 000 sq ft Use 1 to 15 gallons of water per 1 000 sq ft to obtain good coverage Use higher listed rate for severe insect infestations
	Leafhopper	0.75 oz (2 lbs per acre)	As the leafhoppers begin to appear A repeat application at a 7 day interval may be necessary	

4/1/15

PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 1000 SQ FT	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Turfgrass (Golf Courses and Sod Farms only)	Mole Crickets (except CA) Spittlebug (except CA)	Golf Courses 0.8 to 1.4 oz (2.2 to 4 lbs per acre) Sod Farms 0.8 to 1.1 oz (2.2 to 3.09 lbs per acre)	As mole crickets begin to appear For knockdown of existing populations more than one application may be required throughout the growing season For heavy infestations use the higher listed rate Apply at 7 to 14 day intervals as needed	Apply the specified amount of ACEPHATE 97 DF per 1 000 sq ft Use 1 to 15 gallons of water per 1 000 sq ft to obtain good coverage Apply during late afternoon or early evening hours and after irrigation Do not irrigate after application Use higher listed rate for severe insect infestations The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the acephate The following lemon scented products have been shown to be effective flushing agents Lemon Joy Lemon Palmolive and Mighty Products manufactured base pure lemon fragrance The use rate for these lemon scented products is 2 teaspoons per gallon of water for small total mix volume or 6 fl oz per 50 gallons of water for large mix volume
	Sod Webworm (Crambus spp)	0.4 to 0.8 oz (1 to 2.2 lbs per acre)	As sod webworms begin to appear use the higher amount when quick knockdown is needed or with heavy infestations Repeat application may be needed Apply at 7 to 14 day intervals as needed	Apply the specified amount of ACEPHATE 97 DF per 1 000 sq ft Use 1 to 15 gallons of water per 1 000 sq ft to obtain good coverage Use higher listed rate for severe insect infestations

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PLANTS	INSECTS	AMOUNT OF ACEPHATE 97 DF PER 1000 SQ FT	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Turfgrass (Golf Courses and Sod Farms only)	Greenbug (Shizaphis graminum) Grasshoppers	0.4 oz (1 lb per acre)	Apply when insects or their damage first appear Apply at 7 to 14 day intervals as needed	Apply the specified amount of ACEPHATE 97 DF Use 4 gallons of water per 1 000 sq ft to obtain good coverage Do not mow turfgrass for at least 24 hours after application
	Black Turf grass Ataenius (except CA)	Golf Courses 0.9 to 1.4 oz (2.5 to 4 lbs per acre) Sod Farms 0.9 to 1.1 oz (2.5 to 3.09 lbs per acre)	Apply when insects or their damage first appear Apply at 7 to 14 day intervals as needed	Apply the specified amount of ACEPHATE 97 DF per 1 000 sq ft Use a minimum of 5 gals of water per 1 000 sq ft Irrigate lightly after application (not more than 1/2 inch) Use higher listed rate for severe insect infestations
Dichondra (Golf Courses and Sod Farms only)	Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	Golf Courses 0.8 to 1.4 oz (2.2 to 4 lbs per acre) Sod Farms 0.8 to 1.1 oz (2.2 to 3.09 lbs per acre)	Apply when the insects appear Repeat at 14 day intervals as necessary	Apply the specified amount of ACEPHATE 97 DF per 1 000 sq ft Use a minimum of 15 gallons of water per 1 000 sq ft to obtain good coverage Use higher listed rate for severe insect infestations
RESTRICTIONS				
<ul style="list-style-type: none"> Do not apply more than 3.09 lbs product/A for Sod Farms and 4.12 lbs product/A for Golf Courses For Sod Farms allow at least 3 days to elapse between final application and harvesting sod Do not apply aerially 				

MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS

Do not allow livestock to graze treated areas Do not feed treated grass to livestock

PLANTS	INSECTS	AMOUNT ACEPHATE 97 DF	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Turf grass and Non Crop Areas	Imported Fire Ants and Harvester Ants	Mound Treatment Drench Method Mix 0.75 oz in 5 gallons of water Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound	Apply when insects first appear	Apply the specified amount of ACEPHATE 97 DF as directed Grass in treated areas may be injured For best results apply the material in the early morning or late afternoon when the ants are most active Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest

RESTRICTIONS

- Do not treat mound more than once per season
- For Sod Farms Allow at least 3 days to elapse between last application and harvesting

7/9/95

OUTDOOR AND PERIMETER SPRAY EXCLUDING RESIDENTIAL TURF

LOCATI ON	INSECTS	AMOUNT ACEPHATE 97 DF PER	APPLICATION TIMING	APPLICATION INSTRUCTIONS
Outdoor and Perimeter area (excluding residential turf)	Wasps	1 2 oz	Treat early or late in the day as wasps are generally less active during these times	Apply the specified amount of ACEPHATE 97 DF per each gallon of water used Apply as a spot treatment to the nest nest entrance and surrounding areas where the wasps alight
	Ants (excluding fire harvester carpenter and pharaoh ants) Crickets Earwigs Pillbugs	1 2 oz	As the insects appear	Apply the specified amount of ACEPHATE 97 DF per each gallon of water used Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance Also apply as a residual spray or with a paint brush to surfaces of buildings window frames shutters entry ways screens eaves patios garages carports around garbage areas where these pests congregate

RESTRICTIONS

- The use of low pressure hand wand equipment for perimeter or wasp treatments is prohibited

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage disposal or cleaning of equipment

PESTICIDE STORAGE Keep pesticides in original container Do not put concentrate or dilute into food or drink containers Store in a cool dry place Protect from excessive heat Do not contaminate food or foodstuffs Do not store or transport near feed or food

PESTICIDE DISPOSAL Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL Nonrefillable container Do not reuse or refill this container Completely empty bag into application equipment Then offer for recycling or dispose of empty bag in a sanitary landfill or by incineration or if allowed by state and local authorities by burning if burned stay out of smoke

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